

1-) A CLASS OF STUDENTS SITS TWO TESTS. 20% FAIL THE FIRST TEST, AND 20% FAIL THE SECOND. WHAT PROPORTION

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INTRODUCTION

IN EDUCATIONAL SETTINGS, UNDERSTANDING STUDENT PERFORMANCE ACROSS MULTIPLE ASSESSMENTS IS VITAL FOR TEACHERS, ADMINISTRATORS, AND STUDENTS THEMSELVES. WHEN ANALYZING TEST RESULTS, EDUCATORS OFTEN SEEK TO DETERMINE THE LIKELIHOOD OF STUDENTS FAILING ONE OR MORE TESTS, AS WELL AS THE OVERALL PROPORTION OF STUDENTS WHO MIGHT STRUGGLE ACROSS ASSESSMENTS. IN THIS ARTICLE, WE EXAMINE A SCENARIO INVOLVING A CLASS OF STUDENTS SITTING TWO TESTS, WHERE 20% OF STUDENTS FAIL EACH TEST. OUR GOAL IS TO CALCULATE THE PROPORTION OF STUDENTS WHO FAIL AT LEAST ONE OF THE TESTS, AS WELL AS EXPLORE RELATED PROBABILITIES, ASSUMPTIONS, AND IMPLICATIONS.

UNDERSTANDING THE BASIC SCENARIO

SCENARIO DETAILS

- TOTAL STUDENTS IN THE CLASS: ASSUME AN ARBITRARY NUMBER, SAY 100 STUDENTS, FOR SIMPLICITY IN CALCULATIONS.
- FAIL RATE FOR THE FIRST TEST: 20%
- FAIL RATE FOR THE SECOND TEST: 20%
- FAIL RATE FOR EACH TEST: 0.20 (OR 20%)

KEY QUESTIONS

- WHAT PROPORTION OF STUDENTS FAIL ONLY THE FIRST TEST?
- WHAT PROPORTION FAIL ONLY THE SECOND TEST?
- WHAT PROPORTION FAIL BOTH TESTS?
- WHAT PROPORTION PASS BOTH TESTS?
- WHAT IS THE PROBABILITY THAT A STUDENT FAILS AT LEAST ONE TEST?

ASSUMPTIONS AND APPROACH

BEFORE PROCEEDING WITH CALCULATIONS, IT'S ESSENTIAL TO CLARIFY THE ASSUMPTIONS:

- **INDEPENDENCE OF TESTS:** WE ASSUME THAT FAILING ONE TEST IS INDEPENDENT OF FAILING THE OTHER. THIS MEANS THE OUTCOME OF ONE TEST DOES NOT INFLUENCE THE OUTCOME OF THE OTHER FOR ANY STUDENT.
- **SAME FAIL RATE FOR ALL STUDENTS:** THE FAILURE PERCENTAGE APPLIES UNIFORMLY ACROSS ALL STUDENTS.

While in real-world scenarios, these assumptions might not hold perfectly (e.g., students who fail one test might be more likely to fail the other), assuming independence simplifies the calculation and provides a baseline estimate.

Calculations: Determining the Proportions

Step 1: Define Probabilities

Let's denote:

- $P(F_1)$ = Probability a student fails the first test = 0.20
- $P(F_2)$ = Probability a student fails the second test = 0.20

Given the assumption of independence:

- $P(F_1 \cap F_2)$ = Probability a student fails both tests = $P(F_1) \times P(F_2) = 0.20 \times 0.20 = 0.04$
- $P(F_1 \text{ only})$ = $P(F_1) - P(F_1 \cap F_2) = 0.20 - 0.04 = 0.16$
- $P(F_2 \text{ only})$ = $P(F_2) - P(F_1 \cap F_2) = 0.20 - 0.04 = 0.16$
- $P(\text{Pass both})$ = $1 - P(F_1 \cup F_2)$

Step 2: Calculate the Union of Failures

The probability that a student fails at least one test:

$$P(F_1 \cup F_2) = P(F_1) + P(F_2) - P(F_1 \cap F_2) = 0.20 + 0.20 - 0.04 = 0.36$$

Interpretation: Approximately 36% of students are expected to fail at least one test.

Summary of proportions:

Category	Calculation	Proportion
Fail only the first test	$P(F_1) - P(F_1 \cap F_2)$	16%
Fail only the second test	$P(F_2) - P(F_1 \cap F_2)$	16%
Fail both tests	$P(F_1 \cap F_2)$	4%
Pass both tests	$1 - P(F_1 \cup F_2)$	64%

Implications and Real-World Considerations

Understanding the Results

- Approximately 36% of students are expected to fail at least one test, which could inform teachers about

THE NEED FOR ADDITIONAL SUPPORT OR REVIEW SESSIONS.

- THE LARGEST GROUP, 64%, PASSES BOTH TESTS, INDICATING A MAJORITY ARE PERFORMING ADEQUATELY.

IMPACT OF ASSUMPTIONS

- THE INDEPENDENCE ASSUMPTION SIMPLIFIES CALCULATIONS BUT MAY NOT REFLECT ACTUAL STUDENT BEHAVIOR. IF FAILING ONE TEST CORRELATES WITH FAILING THE OTHER, THE PROBABILITIES WOULD DIFFER.

- FOR EXAMPLE, IF STUDENTS WHO FAIL THE FIRST TEST ARE MORE LIKELY TO FAIL THE SECOND, THE PROBABILITY OF FAILING BOTH WOULD BE HIGHER THAN 4%.

ADJUSTING FOR DEPENDENCE

- IF DATA SUGGESTS DEPENDENCE, PROBABILISTIC MODELS LIKE CONDITIONAL PROBABILITY CAN BE USED.

- FOR INSTANCE, IF FAILING THE FIRST TEST INCREASES THE CHANCE OF FAILING THE SECOND (SAY, 30% INSTEAD OF 20%), THE CALCULATIONS NEED TO INCORPORATE THIS.

EXTENDED ANALYSIS: WHAT IF THE FAIL RATES CHANGE?

SUPPOSE THE FAILURE RATES ARE NOT FIXED AT 20%. HOW WOULD THE PROPORTIONS CHANGE?

- FOR HIGHER FAIL RATES, THE PROPORTION OF STUDENTS FAILING AT LEAST ONE TEST WOULD INCREASE.
- CONVERSELY, IF THE FAILURE RATES DECREASE, FEWER STUDENTS WOULD FAIL.
- THE SAME FORMULAS APPLY, BUT WITH UPDATED PROBABILITIES.

PRACTICAL APPLICATIONS OF THESE CALCULATIONS

UNDERSTANDING THESE PROPORTIONS HAS MULTIPLE BENEFITS IN EDUCATIONAL PLANNING:

1. **IDENTIFYING AT-RISK STUDENTS:** TARGETED INTERVENTIONS CAN BE DIRECTED TOWARDS STUDENTS FAILING ONE OR BOTH TESTS.
2. **CURRICULUM ADJUSTMENT:** IF MANY STUDENTS FAIL, EDUCATORS MIGHT REVISIT THE TEACHING METHODS OR CONTENT DIFFICULTY.
3. **RESOURCE ALLOCATION:** SCHOOLS CAN ALLOCATE TUTORING OR REMEDIAL RESOURCES BASED ON FAILURE PROPORTIONS.
4. **POLICY DEVELOPMENT:** DATA-DRIVEN INSIGHTS ASSIST IN SHAPING ASSESSMENT POLICIES AND GRADING STANDARDS.

LIMITATIONS AND FURTHER CONSIDERATIONS

WHILE THE CALCULATIONS PROVIDE USEFUL ESTIMATES, SEVERAL LIMITATIONS SHOULD BE ACKNOWLEDGED:

- ASSUMPTION OF INDEPENDENCE MAY NOT HOLD TRUE IN REAL SCENARIOS.
- FAIL RATES MIGHT VARY AMONG DIFFERENT STUDENT GROUPS BASED ON PRIOR KNOWLEDGE, STUDY HABITS, OR OTHER FACTORS.
- PERFORMANCE ON TESTS CAN BE INFLUENCED BY EXTERNAL FACTORS SUCH AS TEST ANXIETY, HEALTH, OR ENVIRONMENTAL ISSUES.

TO OBTAIN MORE PRECISE INSIGHTS, EDUCATORS COULD ANALYZE ACTUAL DATA, PERFORM CORRELATION STUDIES, OR USE MORE SOPHISTICATED STATISTICAL MODELS.

CONCLUSION

IN SUMMARY, WHEN ANALYZING A CLASS WHERE 20% OF STUDENTS FAIL EACH OF TWO TESTS, ASSUMING INDEPENDENCE, APPROXIMATELY 36% OF STUDENTS ARE EXPECTED TO FAIL AT LEAST ONE OF THE ASSESSMENTS. SPECIFICALLY, 16% FAIL ONLY THE FIRST TEST, 16% FAIL ONLY THE SECOND, AND 4% FAIL BOTH. THE REMAINING 64% PASS BOTH TESTS. THESE CALCULATIONS ARE VITAL FOR EDUCATORS AIMING TO IMPROVE STUDENT PERFORMANCE, ALLOCATE RESOURCES EFFECTIVELY, AND IMPLEMENT TARGETED INTERVENTIONS. WHILE THE ASSUMPTIONS SIMPLIFY THE ANALYSIS, REAL-WORLD DATA CAN REFINE THESE ESTIMATES, LEADING TO MORE ACCURATE AND ACTIONABLE INSIGHTS.

UNDERSTANDING THE PROBABILISTIC RELATIONSHIPS AMONG STUDENT FAILURE RATES NOT ONLY ENHANCES EDUCATIONAL STRATEGIES BUT ALSO FOSTERS A DATA-DRIVEN APPROACH TO STUDENT SUCCESS.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE PERCENTAGE OF STUDENTS WHO FAIL THE FIRST TEST?

20% OF THE STUDENTS FAIL THE FIRST TEST.

WHAT IS THE PERCENTAGE OF STUDENTS WHO FAIL THE SECOND TEST?

20% OF THE STUDENTS FAIL THE SECOND TEST.

IF 20% OF STUDENTS FAIL EACH TEST, WHAT IS THE PROPORTION OF STUDENTS WHO FAIL BOTH TESTS?

THE PROPORTION OF STUDENTS FAILING BOTH TESTS IS 4%, ASSUMING INDEPENDENCE, CALCULATED AS $0.2 \times 0.2 = 0.04$.

WHAT IS THE PROPORTION OF STUDENTS WHO PASS BOTH TESTS?

ASSUMING INDEPENDENCE, STUDENTS WHO PASS BOTH ARE $1 - (\text{FAIL FIRST} + \text{FAIL SECOND} - \text{FAIL BOTH})$. IF FAIL BOTH IS 4%, THEN PASS BOTH IS APPROXIMATELY 96%.

ARE THE FAILURES ON THE TWO TESTS INDEPENDENT EVENTS?

NOT NECESSARILY; WITHOUT ADDITIONAL INFORMATION, WE CANNOT ASSUME INDEPENDENCE. THE ACTUAL OVERLAP COULD BE MORE OR LESS THAN 4%.

WHAT IS THE MINIMUM POSSIBLE PROPORTION OF STUDENTS FAILING AT LEAST ONE TEST?

THE MINIMUM OCCURS IF ALL STUDENTS WHO FAIL THE FIRST ALSO FAIL THE SECOND. IN THAT CASE, AT LEAST 20% FAIL AT LEAST ONE TEST.

HOW CAN WE CALCULATE THE EXACT PROPORTION OF STUDENTS FAILING AT LEAST ONE TEST?

USING THE PRINCIPLE: PROPORTION FAILING AT LEAST ONE = FAIL FIRST + FAIL SECOND - FAIL BOTH. WITHOUT KNOWING FAIL BOTH, THE MINIMUM IS 20%, MAXIMUM IS 36% IF FAILURES ARE INDEPENDENT.

IF THE STUDENTS WHO FAIL BOTH TESTS ARE KNOWN TO BE 8%, WHAT IS THE PROPORTION OF STUDENTS FAILING AT LEAST ONE TEST?

PROPORTION FAILING AT LEAST ONE = 20% + 20% - 8% = 32%.

ADDITIONAL RESOURCES

A CLASS OF STUDENTS SITS TWO TESTS. 20% FAIL THE FIRST TEST, AND 20% FAIL THE SECOND. WHAT PROPORTION? UNDERSTANDING THE DISTRIBUTION OF STUDENT PERFORMANCE ACROSS MULTIPLE ASSESSMENTS IS A COMMON CHALLENGE IN EDUCATIONAL ANALYSIS. WHEN A CLASS OF STUDENTS TAKES TWO TESTS, AND WE KNOW THE FAILURE RATES FOR EACH, IT BECOMES ESSENTIAL TO DETERMINE THE PROPORTION OF STUDENTS WHO FAIL BOTH TESTS, FAIL ONLY ONE, OR PASS BOTH. THIS KIND OF PROBLEM NOT ONLY HELPS EDUCATORS IDENTIFY PATTERNS BUT ALSO AIDS IN TARGETED INTERVENTION STRATEGIES. IN THIS GUIDE, WE'LL EXPLORE HOW TO ANALYZE SUCH SCENARIOS, INTERPRET THE DATA, AND CALCULATE THE VARIOUS PROPORTIONS STEP-BY-STEP.

INTRODUCTION

IMAGINE A SCENARIO WHERE A CLASS OF STUDENTS TAKES TWO TESTS, SAY TEST 1 AND TEST 2. THE FAILURE RATES FOR EACH ARE GIVEN AS 20%. THAT IS:

- 20% OF STUDENTS FAIL TEST 1.
- 20% OF STUDENTS FAIL TEST 2.

THIS SIMPLE SETUP RAISES SEVERAL QUESTIONS:

- WHAT PROPORTION OF STUDENTS FAIL BOTH TESTS?
- HOW MANY STUDENTS PASS BOTH?
- WHAT IS THE DISTRIBUTION OF STUDENTS WHO FAIL ONLY ONE OF THE TWO TESTS?

ANSWERING THESE QUESTIONS INVOLVES UNDERSTANDING THE CONCEPTS OF PROBABILITY, ESPECIALLY INTERSECTION AND UNION OF EVENTS, AS WELL AS THE ASSUMPTION OF INDEPENDENCE OR DEPENDENCE BETWEEN TEST FAILURES.

BASIC CONCEPTS AND ASSUMPTIONS

BEFORE DIVING INTO CALCULATIONS, IT'S IMPORTANT TO CLARIFY SOME FOUNDATIONAL CONCEPTS:

1. FAILURE RATE

THE FAILURE RATE IS THE PERCENTAGE OF STUDENTS WHO DO NOT MEET THE PASSING CRITERIA. HERE:

- FAILURE IN TEST 1 (F1): 20% or 0.20
- FAILURE IN TEST 2 (F2): 20% or 0.20

2. EVENTS

- EVENT A: STUDENT FAILS TEST 1.
- EVENT B: STUDENT FAILS TEST 2.

3. PROBABILITIES

- $P(A) = 0.20$
- $P(B) = 0.20$

4. INDEPENDENCE VS. DEPENDENCE

- INDEPENDENT EVENTS: THE OUTCOME OF ONE TEST DOES NOT AFFECT THE OUTCOME OF THE OTHER.
- DEPENDENT EVENTS: THE OUTCOME OF ONE TEST INFLUENCES THE PROBABILITY OF FAILURE IN THE OTHER.

IN MANY REAL-WORLD EDUCATIONAL SETTINGS, FAILURE IN ONE TEST MIGHT INFLUENCE FAILURE IN ANOTHER DUE TO UNDERLYING FACTORS LIKE STUDENT APTITUDE OR PREPARATION. HOWEVER, FOR SIMPLICITY, INITIAL CALCULATIONS OFTEN ASSUME INDEPENDENCE UNLESS SPECIFIED OTHERWISE.

STEP 1: CALCULATING THE PROPORTION OF STUDENTS WHO FAIL BOTH TESTS (INTERSECTION)

THE KEY QUESTION: WHAT PROPORTION OF STUDENTS FAIL BOTH TESTS?

ASSUMING INDEPENDENCE

IF WE ASSUME THAT FAILING TEST 1 AND TEST 2 ARE INDEPENDENT EVENTS, THEN THE PROBABILITY THAT A STUDENT FAILS BOTH IS THE PRODUCT OF THE INDIVIDUAL FAILURE PROBABILITIES:

$$P(\text{FAIL BOTH}) = P(A \cap B) = P(A) \times P(B) = 0.20 \times 0.20 = 0.04$$

INTERPRETATION:

- 4% OF THE STUDENTS FAIL BOTH TESTS.

IF EVENTS ARE DEPENDENT

IN REAL SCENARIOS, FAILURES MIGHT BE CORRELATED—STUDENTS WHO FAIL ONE TEST MAY HAVE A HIGHER OR LOWER CHANCE OF FAILING THE OTHER. WITHOUT DATA, THE INDEPENDENCE ASSUMPTION IS THE BEST STARTING POINT. IF YOU HAVE INFORMATION ABOUT CORRELATION OR JOINT FAILURE RATES, YOU COULD ADJUST ACCORDINGLY.

STEP 2: CALCULATING THE PROPORTION OF STUDENTS WHO FAIL ONLY ONE TEST

NEXT, WE WANT TO FIND:

- THE PROPORTION WHO FAIL ONLY TEST 1.
- THE PROPORTION WHO FAIL ONLY TEST 2.

FAIL ONLY TEST 1

$$P(\text{FAIL ONLY TEST 1}) = P(A) - P(A \cap B)$$

USING THE INDEPENDENCE ASSUMPTION:

$$0.20 - 0.04 = 0.16$$

INTERPRETATION:

- 16% OF STUDENTS FAIL ONLY TEST 1.

FAIL ONLY TEST 2

SIMILARLY:

$$P(\text{FAIL ONLY TEST 2}) = P(B) - P(A \cap B)$$

$$0.20 - 0.04 = 0.16$$

INTERPRETATION:

- 16% OF STUDENTS FAIL ONLY TEST 2.

STEP 3: CALCULATING THE PROPORTION OF STUDENTS WHO PASS BOTH TESTS

THE REMAINING STUDENTS ARE THOSE WHO PASS BOTH TESTS:

$$P(\text{PASS BOTH}) = 1 - P(\text{FAIL ONLY TEST 1}) - P(\text{FAIL ONLY TEST 2}) - P(\text{FAIL BOTH})$$

SUBSTITUTING VALUES:

$$1 - 0.16 - 0.16 - 0.04 = 1 - 0.36 = 0.64$$

INTERPRETATION:

- 64% OF STUDENTS PASS BOTH TESTS.

SUMMARY OF PROPORTIONS (ASSUMING INDEPENDENCE)

CATEGORY	PROPORTION OF STUDENTS	PERCENTAGE
FAIL BOTH TESTS	4%	4%
FAIL ONLY TEST 1	16%	16%
FAIL ONLY TEST 2	16%	16%
PASS BOTH TESTS	64%	64%

VISUALIZATION AND PRACTICAL IMPLICATIONS

VISUAL REPRESENTATIONS CAN HELP EDUCATORS UNDERSTAND THESE DISTRIBUTIONS:

- VENN DIAGRAM:

ILLUSTRATES THE OVERLAP BETWEEN STUDENTS FAILING EACH TEST.

- BAR CHART OR PIE CHART:

SHOWS THE PROPORTION OF STUDENTS IN EACH CATEGORY.

EDUCATIONAL IMPLICATIONS:

- THE FACT THAT 4% FAIL BOTH TESTS COULD INDICATE A SUBGROUP WITH PERSISTENT DIFFICULTIES.
- THE 16% FAILING ONLY ONE TEST MIGHT SUGGEST ISSUES RELATED TO SPECIFIC TEST CONTENT OR STUDENT PREPAREDNESS.
- THE MAJORITY PASSING BOTH TESTS (64%) INDICATES OVERALL EFFECTIVENESS BUT HIGHLIGHTS AREAS FOR TARGETED SUPPORT.

REFINING THE MODEL: CONSIDERING DEPENDENCE

WHILE THE INDEPENDENCE ASSUMPTION SIMPLIFIES CALCULATIONS, IN PRACTICE, FAILURES MAY NOT BE INDEPENDENT. TO MODEL DEPENDENCE, YOU WOULD NEED ADDITIONAL DATA:

- THE PROBABILITY THAT A STUDENT FAILS TEST 2 GIVEN THEY FAILED TEST 1: $(P(B|A))$.
- THE PROBABILITY THAT A STUDENT FAILS TEST 1 GIVEN THEY FAILED TEST 2: $(P(A|B))$.

IF, FOR EXAMPLE, FAILURE IS CORRELATED, THEN THE JOINT PROBABILITY $(P(A \cap B))$ COULD BE HIGHER OR LOWER THAN 0.04. TO INCORPORATE THIS, YOU WOULD:

- USE DATA TO ESTIMATE THE CONDITIONAL PROBABILITIES.
- APPLY THE FORMULA:

$$[P(A \cap B) = P(A) \times P(B|A)]$$

OR

$$[P(A \cap B) = P(B) \times P(A|B)]$$

EXAMPLE SCENARIO:

SUPPOSE DATA SHOWS THAT STUDENTS WHO FAIL ONE TEST HAVE A 50% CHANCE OF FAILING THE OTHER:

$$[P(A \cap B) = P(A) \times P(B|A) = 0.20 \times 0.50 = 0.10]$$

IN THAT CASE, 10% OF STUDENTS FAIL BOTH TESTS, SIGNIFICANTLY HIGHER THAN UNDER THE INDEPENDENCE ASSUMPTION.

ADDITIONAL CONSIDERATIONS AND APPLICATIONS

1. IMPACT OF DIFFERENT FAILURE RATES

IF FAILURE RATES DIFFER BETWEEN TESTS (E.G., 10% IN TEST 1, 30% IN TEST 2), THE CALCULATIONS ADJUST ACCORDINGLY:

- $(P(A) = 0.10)$
- $(P(B) = 0.30)$

AND THE INTERSECTION DEPENDS ON INDEPENDENCE OR DEPENDENCE ASSUMPTIONS.

2. MULTIPLE TESTS AND COMPLEX SCENARIOS

THIS METHODOLOGY CAN EXTEND TO MORE THAN TWO TESTS, WITH MORE COMPLEX PROBABILITY CALCULATIONS INVOLVING MULTIPLE INTERSECTIONS AND UNIONS.

3. EDUCATIONAL INTERVENTIONS

UNDERSTANDING THE DISTRIBUTION OF FAILURES HELPS IN DESIGNING TARGETED INTERVENTIONS, SUCH AS:

- ADDITIONAL TUTORING FOR STUDENTS PRONE TO FAILING MULTIPLE TESTS.
- REVIEW SESSIONS FOCUSING ON SPECIFIC CONTENT AREAS.
- PERSONALIZED FEEDBACK BASED ON FAILURE PATTERNS.

FINAL THOUGHTS

ANALYZING STUDENT PERFORMANCE ACROSS MULTIPLE ASSESSMENTS INVOLVES UNDERSTANDING BASIC PROBABILITY PRINCIPLES, PARTICULARLY THE CONCEPTS OF INDEPENDENT AND DEPENDENT EVENTS. ASSUMING INDEPENDENCE, WITH FAILURE RATES OF 20% FOR EACH TEST, WE FIND THAT APPROXIMATELY 4% OF STUDENTS FAIL BOTH TESTS, 16% FAIL ONLY ONE, AND 64% PASS

BOTH. THESE PROPORTIONS SERVE AS A FOUNDATION FOR EDUCATORS TO INTERPRET STUDENT DATA EFFECTIVELY.

BY REFINING ASSUMPTIONS BASED ON ACTUAL DATA ABOUT TEST CORRELATIONS, EDUCATORS CAN BETTER IDENTIFY AT-RISK STUDENTS AND TAILOR INTERVENTIONS ACCORDINGLY. ULTIMATELY, SUCH ANALYSIS ENHANCES EDUCATIONAL STRATEGIES, SUPPORTS STUDENT SUCCESS, AND INFORMS CONTINUOUS IMPROVEMENT IN ASSESSMENT METHODS.

REMEMBER:

- ALWAYS QUESTION WHETHER FAILURE EVENTS ARE INDEPENDENT OR DEPENDENT IN YOUR CONTEXT.
- USE ACTUAL DATA WHEN AVAILABLE TO REFINE ESTIMATES.
- VISUALIZE DATA TO COMMUNICATE FINDINGS CLEARLY.
- APPLY THESE PRINCIPLES TO INFORM TARGETED EDUCATIONAL STRATEGIES.

END OF GUIDE.

1 A Class Of Students Sits Two Tests 20 Fail The First Test And 20 Fail The Second What Proportion

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